Overview

A growing body of research has found that the market power of the United States’ largest companies has grown significantly since the 1980s. Due to increased market power, firms are earning higher profits by raising prices and paying their workers less, then transferring wealth from consumers and workers to shareholders. Because shareholders, on average, are wealthier than customers and workers, this dynamic, in principle, should exacerbate inequality. Recent empirical work confirms this result.

Researchers have proposed different explanations for rising market power, such as reduced antitrust enforcement and the rise of “winner-take-most” markets. Reduced antitrust enforcement appears to be a compelling explanation, at least in part, since the U.S. government relaxed its antitrust enforcement at the same time that market power began to grow. Moreover, market power has grown more in the United States than in other countries, suggesting that U.S. policy has played a role.

This issue brief examines the latest evidence on how market power has grown, how it has increased inequality, and different explanations for growing market power.

The growing evidence of greater market power

Markups and corporate profits have been on the rise since the 1980s. A markup is the difference between a product’s price and its marginal cost, or the cost of making one additional unit. High markups are a common measure of monopoly power because when a firm has less competition, it has more leverage to charge high prices. Similarly, high corporate profits are a sign of market power since they represent the rents that firms are able to capture.

While average markups in the U.S. economy were relatively stable between 1955 and 1980, they have tripled since 1980, from 21 percent above firms’ marginal costs to 61 percent above marginal costs today, according to a recent paper by Jan De Loecker of
KU Leuven, Jan Eeckhout of UPF Barcelona, and Gabriel Unger of Harvard University.¹ Recent papers by Robert E. Hall of Stanford University² and James Traina of the University of Chicago³ also find that U.S. markups have risen since the 1980s, although they find more modest increases than De Loecker, Eeckhout, and Unger’s paper.

Markups are rising across the developed world. In advanced economies, markups have risen by an average of 39 percent since 1980, while rising less in developing countries, according to a recent paper by Federico Diez, Daniel Leigh, and Suchanan Tambunlertchai of the International Monetary Fund.⁴

Nonetheless, markups have risen more in the United States than in the rest of the world, suggesting that higher U.S. markups may be a result of U.S. policy. U.S. markups have risen more than the global average since 1980, according to a paper by KU Leuven’s Jan De Loecker and UPF Barcelona’s Jan Eeckhout.⁵ (See Figure 1.) A new analysis by the International Monetary Fund finds that markups have risen twice as much in the United States as in the average advanced economy since 2000.⁶ In the eurozone, in contrast, market power has remained stable in recent years, and markups have actually declined, according to a recent European Central Bank paper.⁷

**FIGURE 1**

Markups have tripled since 1980, a sign of increased monopoly power

Sales-Weighted Average Markups in the U.S., 1955-2016

Rising corporate profits can also be a sign of increased market power.⁸ In a perfectly competitive economy, profits would be competed down to zero. As a firm faces less competition, it can capture more of the surplus, increasing its profits that would otherwise go to consumers or workers. By multiple measures, corporate profits have surged since the 1980s. The before-tax profit share of Gross Domestic Product has more than doubled since 1980 to 14 percent of GDP, according to a new paper by Ufuk Akcigit of
The Washington Center for Equitable Growth

How market power has increased U.S. inequality

The University of Chicago and Sina T. Ates of the Federal Reserve. Average profits have risen from 1 percent of sales to 8 percent of sales since 1980, according to De Loecker, Eeckhout, and Unger’s paper. Simcha Barkai of London Business School finds that since 1984, profits have increased from 2.2 percent gross value added to 15.7 percent. (See box.)

Labor’s falling share of income and growing market power

Research links the falling labor share of income to growing market power. Barkai’s paper finds that the decline in the labor share of income is largely explained by a decline in competition, rather than technology or changes in preferences. He writes that this is because both the labor and capital shares of income have fallen since the 1980s, while the profit share of income has risen. Barkai finds that industries with a greater increase in market concentration have experienced a larger decline in the labor share of income. An Equitable Growth working paper by Gauti Eggertsson, Ella Getz Wold, and Jacob A. Robbins of Brown University also finds that the labor and capital shares of income have both fallen since the 1980s, while the profit share of income has risen, and this is largely explained by an increase in market power.

Research also finds that market power suppresses wages. An Equitable Growth working paper by Elena Prager of Northwestern University and Matt Schmitt of the University of California, Los Angeles finds that hospital mergers lead to slower wage growth. A paper by Efraim Benmelech of Northwestern University, Nittai Bergman of Tel Aviv University, and Hyunseob Kim of Cornell University uses Census data to find that employers take advantage of monopsony power in local labor markets where there are fewer competitors to pay lower wages. A recent paper by José Azar of the University of Navarra, Ioana Marinescu of the University of Pennsylvania, and Marshall Steinbaum of the Roosevelt Institute also finds that an increase in local labor market concentration is associated with a decline in wages. Overall, there is growing evidence that when companies gain market power, they pay their workers less.

Growing market power has coincided with falling business dynamism and growing market concentration in the United States. The rate of new business formation has fallen by one-third since the early 1980s, according to a Peterson Institute paper by Jason Furman of Harvard University and Peter Orszag of the global investment bank Lazard Ltd. As a result, there is less competition, and the economy is increasingly dominated by larger, older firms, which account for a rising share of employment.

Industry concentration also has grown. The paper by Autor, Dorn, Katz, Patterson, and Van Reenen finds that market concentration has broadly increased across the U.S. economy since the early 1980s. In most U.S. industries, the market share of leading firms
has increased and the number of publicly traded firms has fallen since 1997, according to a recent paper by Gustavo Grullon of Rice University, Yelena Larkin of York University, and Roni Michaely of the University of Geneva. Moreover, the revenue share of the 50 largest firms in most industries has risen since 1997, according to a 2016 report by the Obama administration’s Council of Economic Advisers. Since 1980, the revenue of the Fortune 500—the 500 largest companies in the United States—as a share of GDP has risen from 58 percent to 73 percent, according to a report by William Galston and Clara Hendrickson of the Brookings Institution.

The consequences of growing market power

As a matter of theory, growing market power can aggravate economic inequality because the shareholders that benefit are richer than the consumers and workers that lose out. The top 1 percent in net worth owns 50 percent of all stocks held by U.S. households, according to research by Goldman Sachs Group Inc. analyzing Federal Reserve data. The very richest derive the bulk of their income from investments, and market power increases the value of their portfolios. In contrast, as a group, consumers who pay higher prices or workers whose wages stagnate own less stock.

A recent paper by Joshua Gans of the University of Toronto, Andrew Leigh of the Parliament of Australia, Martin Schmalz of the University of Oxford, and Adam Triggs of Australian National University confirms that increased markups are likely to increase inequality. The paper finds that the top 20 percent of the U.S. income distribution owns 89 percent of all stocks, while the bottom 60 percent owns just 7 percent of stocks. In contrast, the top 20 percent spends as much as the bottom 60 percent. Thus, when markups rise, the gap between the top 20 percent and the bottom 60 percent widens. The paper finds that market power has decreased the bottom 60 percent’s share of income and increased it for the top 20 percent.

Market power has increased inequality globally by transferring wealth from consumers to shareholders. In rich countries, market power boosts the wealth of the top 10 percent and reduces the incomes of the bottom 20 percent because the rich own stakes in businesses that rise in value, while the poor get hurt by higher markups, according to a paper by Sean Ennis, Pedro Gonzaga, and Chris Pike of the Organisation for Economic Co-operation and Development.

Rising market power entrenches inequality because the rich save and invest at higher rates, becoming larger shareholders over time. The rich can afford to save more because of their higher incomes. The wealthiest 1 percent saves 20 percent to 25 percent of their income on average, while the bottom 90 percent saves only 3 percent of their income on average, according to a paper by Emmanuel Saez and Gabriel Zucman of the University
of California, Berkeley. As the rich build their savings, the benefits of market power compound over time, as they invest more and more in stocks that rise in value, allowing them to amass even more wealth. On the other hand, the higher prices and lower wages that result from market power make it more difficult for most people to save and build wealth.

Market power has harmed the nonrich not only as consumers, but also as workers. The share of national income going to workers has fallen significantly since the 1970s, and recent research suggests that this is due to growing market power. The rise of superstar firms and “winner-take-most” markets has led to a decline in the labor share of income, according to a paper by David Autor of the Massachusetts Institute of Technology, David Dorn of the University of Zurich, Lawrence Katz of Harvard University, Christina Patterson of MIT (and a visiting scholar at the Washington Center for Equitable Growth), and John Van Reenen of MIT. They attribute this to growing market concentration driven by greater efficiency: A small number of dominant firms are capturing a growing share of total sales, and these firms tend to pay a lower share of their income to workers. (See box above.)

Causes of increased market power and its implications

It appears that a decline in antitrust enforcement has played a role in growing market power, but researchers also have proposed additional explanations. Some economists claim that leading firms are gaining market power because they’re more efficient. Autor, Dorn, Katz, Patterson, and Van Reenen write in their paper on superstar firms that markets have become “winner-take-most” because of stronger network effects and greater competition due to globalization and new technology. Thus, they write, “firms with superior quality, lower costs, or greater innovation reap disproportionate rewards relative to prior eras.” Van Reenen also writes in a recent paper that leading firms are gaining market share because they are more productive, and this may be partly due to their investment in intangible capital.

Some researchers, such as Herbert Hovenkamp of the University of Pennsylvania, suggest that leading firms may be charging higher markups to pay for technology that has high fixed costs. Top research and development spenders include major companies such as Amazon.com Inc. and Alphabet Inc.

This increased investment has made it harder for other firms to catch up. A new paper by Ufuk Akcigit of the University of Chicago and Sina T. Ates of the Federal Reserve finds that reduced knowledge diffusion between firms has boosted markups and the profit share of GDP, and thus market power. They find evidence suggesting that increased use of patents by firms on the technological frontier may be reducing knowledge diffusion. They find that the share of patents held by the top 1 percent of firms with the most patents has risen from 35 percent in the early 1980s to nearly 50 percent today, while the share of patents held by new businesses has plunged from 7 percent to 4 percent.
Moreover, top firms are solidifying their lead by buying up patents from other companies: The share of patent purchases by the top 1 percent of firms has risen from around 30 percent in the early 1980s to around 50 percent today.

There is also evidence suggesting that laxer antitrust enforcement has allowed market power to grow in the United States. The signs of increased market power—especially higher markups and higher corporate profits—date back to the early 1980s. At the same time, during Ronald Reagan’s presidency, the Chicago School of economics revolutionized antitrust enforcement to make it more hands-off, with the argument that most mergers were efficient.

Experts are concerned that once companies reach a certain level of dominance, they can use their significant resources to thwart competition by buying potential competitors or through other anti-competitive measures. However, regulators have largely stayed on the sidelines as big firms have acquired or merged with their competitors. Mergers have consolidated many U.S. industries as antitrust enforcement has declined, according to an Equitable Growth report by John Kwoka of Northeastern University.

The number of antitrust cases filed by the Justice Department under the Sherman Antitrust Act of 1890 has fallen precipitously since the 1970s, according to Justice Department data. For instance, the Justice Department filed only one district court monopoly lawsuit under Section 2 of the Sherman Act between 2008 and 2017—down from 62 district court monopoly lawsuits between 1970 and 1979.

The U.S. government revamped its merger guidelines in 1982 to make them friendlier to mergers, writing: “In the overwhelming majority of cases, the Guidelines will allow firms to achieve available efficiencies through mergers without interference from the Department of Justice.” Merger policy became more lenient after the adoption of the 1982 Merger Guidelines, and market concentration levels began to rise around the same time, according to a recent paper by Carl Shapiro of the University of California, Berkeley.

Judges have increasingly sided with dominant firms. Courts have a tradition of respecting the precedents set by the highest courts, and in two major cases—Verizon v. Trinko and Credit Suisse v. Billing—the Supreme Court ruled in favor of alleged monopolies, in decisions that united both liberal and conservative justices. Howard Shelanski of Georgetown University suggests in a paper that these Supreme Court decisions would have led the United States to lose its landmark anti-monopoly case against AT&T Inc., which led to the breakup of AT&T in the early 1980s, if it had happened today. It appears that declining antitrust enforcement and changing court attitudes toward monopolies have allowed dominant firms to grow bigger and more powerful, leading to increased market power.
Conclusion

Equitable Growth has made it a priority to investigate monopoly power and its link to economic inequality. There is growing evidence that market power has grown since the 1980s, and this has contributed to increased economic inequality by transferring wealth from consumers and workers to shareholders. Market power has raised prices and suppressed wages, while boosting corporate profits. There is also evidence that declining antitrust enforcement has played a role in increased market power. Many questions still need to be answered, and this research increases the urgency of better understanding the causes and consequences of market power.

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Endnotes


9 Ibid.


12 Ibid.


How market power has increased U.S. inequality


27 Autor and others, “The Fall of the Labor Share and the Rise of Superstar Firms.”

28 Ibid.


Our Mission

The Washington Center for Equitable Growth is a non-profit research and grantmaking organization dedicated to advancing evidence-based ideas and policies that promote strong, stable, and broad-based economic growth.